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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,497	06/02/2006	Babak Heidari	AOBDP0105US	3831
23908	7590	07/14/2010	EXAMINER	
RENNER OTTO BOISSELLE & SKLAR, LLP			BROWN II, DAVID N	
1621 EUCLID AVENUE				
NINETEENTH FLOOR			ART UNIT	PAPER NUMBER
CLEVELAND, OH 44115			1791	
			MAIL DATE	DELIVERY MODE
			07/14/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/581,497	HEIDARI ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	DAVID N. BROWN II	1791	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 07/06/2010.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-14 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-14 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
     1. Certified copies of the priority documents have been received.  
     2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
     3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                                                                     |                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                                         | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                                | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>05/13/2010</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application |
|                                                                                                                                     | 6) <input type="checkbox"/> Other: _____ .                        |

## DETAILED ACTION

This is a non-final action in response to the communication dated 07/06/2010.

### ***Information Disclosure Statement***

1. The information disclosure statement filed 05/13/2010 fails to comply with 37 CFR 1.97(d) because it lacks a statement as specified in 37 CFR 1.97(e). It has been placed in the application file, but the information referred to therein has not been considered.

### ***Election/Restrictions***

1. Claims 15-27 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected apparatus, there being no allowable generic or linking claim.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6, 8-9 and 12-14 are rejected under 35 U.S.C. 102(b) as being anticipated by US 6,482,742 (Chou).

Chou teaches an apparatus for transferring a pattern from a template (mold 10) to a substrate (20) carrying a radiation polymerizable fluid (21) with first part (10) and second main part (20+21) having opposing surfaces. The imprinting operation adjusts the spacing between the parts (imprinting; abstract). Support means (67A and 67B or

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74 and 75 or 72 and 79) keep the parts in mutual parallel engagement. Chou teaches a radiation source (column 4 lines 27-31). The containers labeled 60 or 61 have cavities comprising flexible membranes (the mold and /or substrate according to column 3 lines 56-60). The flexible membranes engage each other. They are transparent (column 3 lines 3-8, column 4 lines 26-31); the radiation source is behind the membrane.

Claims 2-4:

Chou teaches the use of air at 500psi (35 bar). (column 6 line 27)

Claim 5:

Figures 6A and 6B show a cavity defined by a part of the surface of the first main part, a flexible seal member arranged in and protruding from the main part surface and the membrane engaging the seal member. The main parts are shown within the containers (having cavities therein). Part 60 is an evacuated plastic bag. Part 61 is a sealing clamp.

Claim 6:

The bag is cut off and the mold is separated from the substrate (column 6 lines 35-37).

Under pressure, the mold is pressed into the PMMA (column 6 lines 30-31).

Claim 8:

One or both of the mold and the substrate are taught to be transparent. The mold is taken to be the first main part.

Claim 9:

See column 3 lines 6-8. This area of Chou describes the first main part as being made of quartz.

Claim 12:

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Chou teaches the use of a plastic material (column 3 lines 16-17).

Claim 13:

Chou teaches the use of a 4" wafer (roughly 200mm). This wafer is the substrate, taken to be the membrane.

Claim 14:

The substrate described is flexible and transparent. It, according to the interpretation offered by the examiner, acts as the membrane. This has been mentioned above in the rejection of claim 1 where first part (10) and second main part (20+21) having opposing surfaces was described.

3. Claim 10 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over US 6,482,742 (Chou).

Chou is silent as to the wavelengths of radiation used. Chou teaches the use of UV radiation (column 4 lines 26-28). The UV range is from 10-400nm. Either Chou operates in the claimed radiation range or it would have been obvious to one having ordinary skill in the art at the time of the invention to operate within this range. Such wavelengths are suggested by Chou since Chou teaches operating in the UV range.

***Claim Rejections - 35 USC § 103***

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

5. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,482,742 (Chou) in view of US 4,095,113 (Wolff).

Chou teaches the use of UV radiation but is silent as to the device used to produce it.

Wolff teaches a xenon lamp capable of operating with a pulse duration of 0.5- 10 micro seconds and a pulse rate of 1-10 pulses per second. It would have been obvious to one having ordinary skill in the art at the time of the invention to use Wolfe's xenon lamp as a source of UV radiation for the invention of Chou. This amounts to combining prior art elements according to known methods.

***Response to Arguments***

6. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID N. BROWN II whose telephone number is (571)270-5497. The examiner can normally be reached on Monday-Thursday 7:30a-5:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Del Sole can be reached on (571)-272-1130. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DAVID N. BROWN II/  
Examiner, Art Unit 1791

/Joseph S. Del Sole/  
Supervisory Patent Examiner, Art Unit 1791